



# **Center for Information Management**

## **Managing Data for a Corporate Perspective**

**25 August 1992**

# Agenda

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- **The DoD Problem**
- **Corporate Information Management Process Support**
- **What is Different Now?**
- **DoD Data Administration Framework**
- **Elements of the DoD Data Administration Program**
- **Baseline and Direction of Data Standardization in DoD**
- **Future of DoD Administration**

# **The DoD Problem**

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- **Uncertain Threat Environment**
- **Reduced Force Structures and Budgets**
- **Outdated Business Methods and C3I Processes**
- **Obsolete/Redundant Information Systems**

# **DoD IM / IT Culture Change**

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- **Process First / Technology Second**
- **Provide More "Purple" Support**
- **Increase Centralized Support of Information Management (IM) / Information Technology (IT)**
- **Move to Customer-Provider, Fee-Based Paradigm**

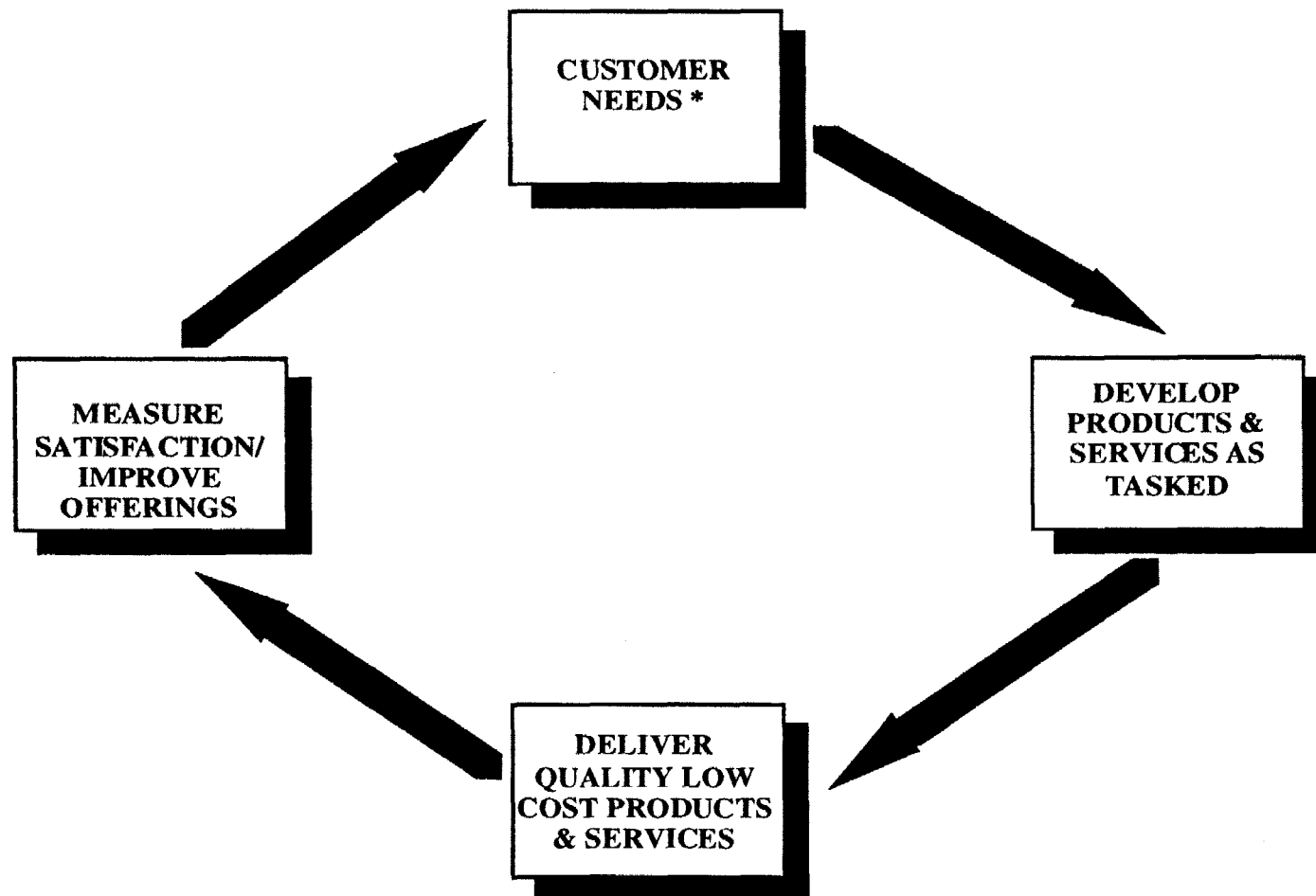
# Center for Information Management

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- **Agent for Change**
- **Information Technology Service Provider**
- **Technical Integrator**

# Center Approach

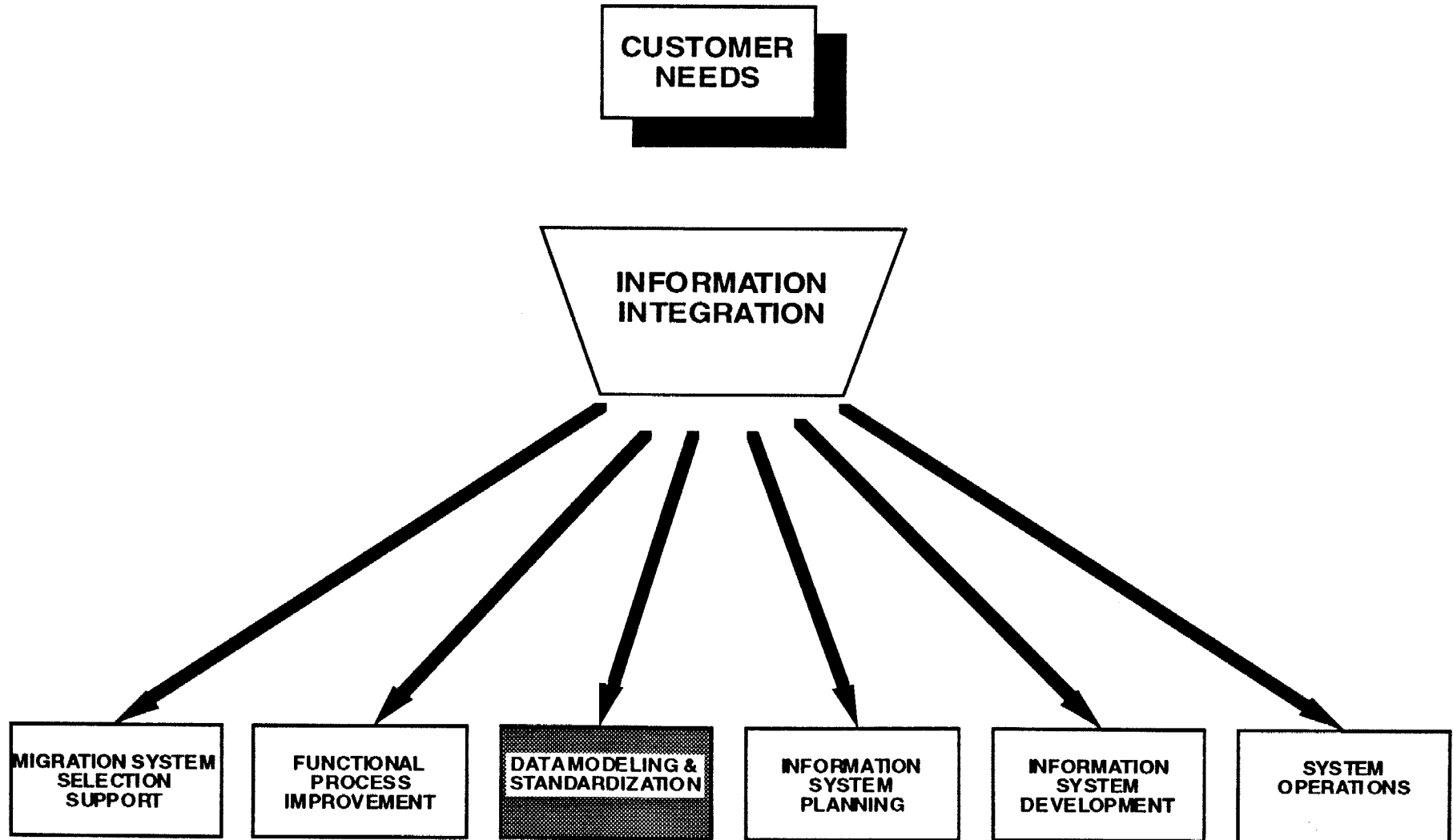
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\* The corporate Information Management process defines the customer's immediate need for technical tools, services and assistance.

# Corporate Information Management Process Support

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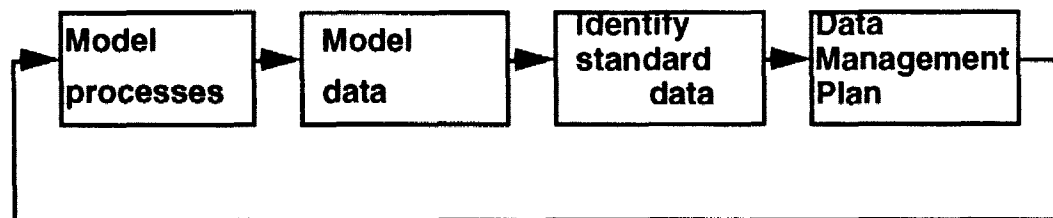


# Data Modeling and Standardization

**Corporate Information Management Process**



**Center Support**



**Iterate**

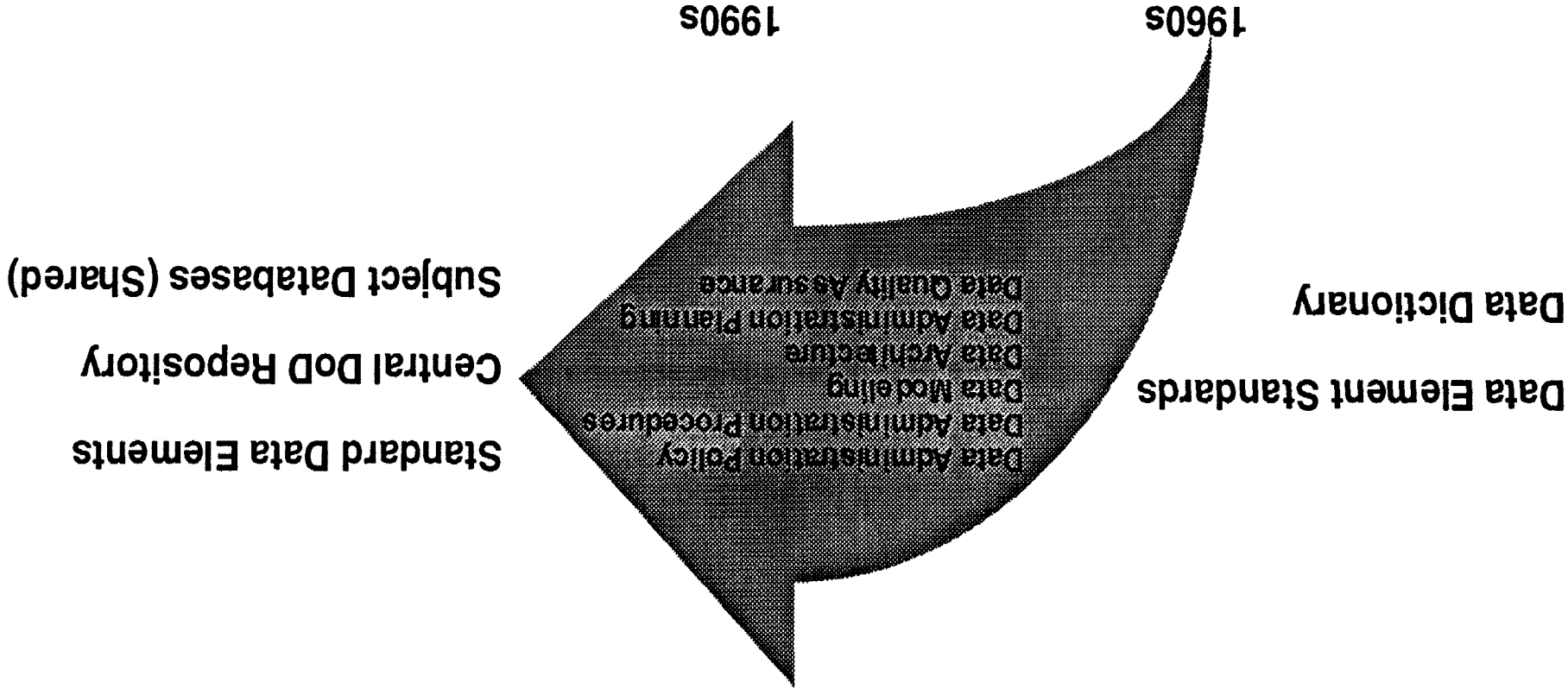
- **Data Models for Improved Processes**
- **Standard Data Leading to DoD-wide Shared Information**

- **Data Model Tools through I-CASE RFP**
- **DoD Data Administration Program**
  - **Functionally Oriented Procedures**
  - **Flexibility**
- **DoD Data Dictionary**
- **DoD Data Model and Architecture - Subject Databases**
- **Expert Technical Assistance**



# What Is Different Now?

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# DoD Data Evolution

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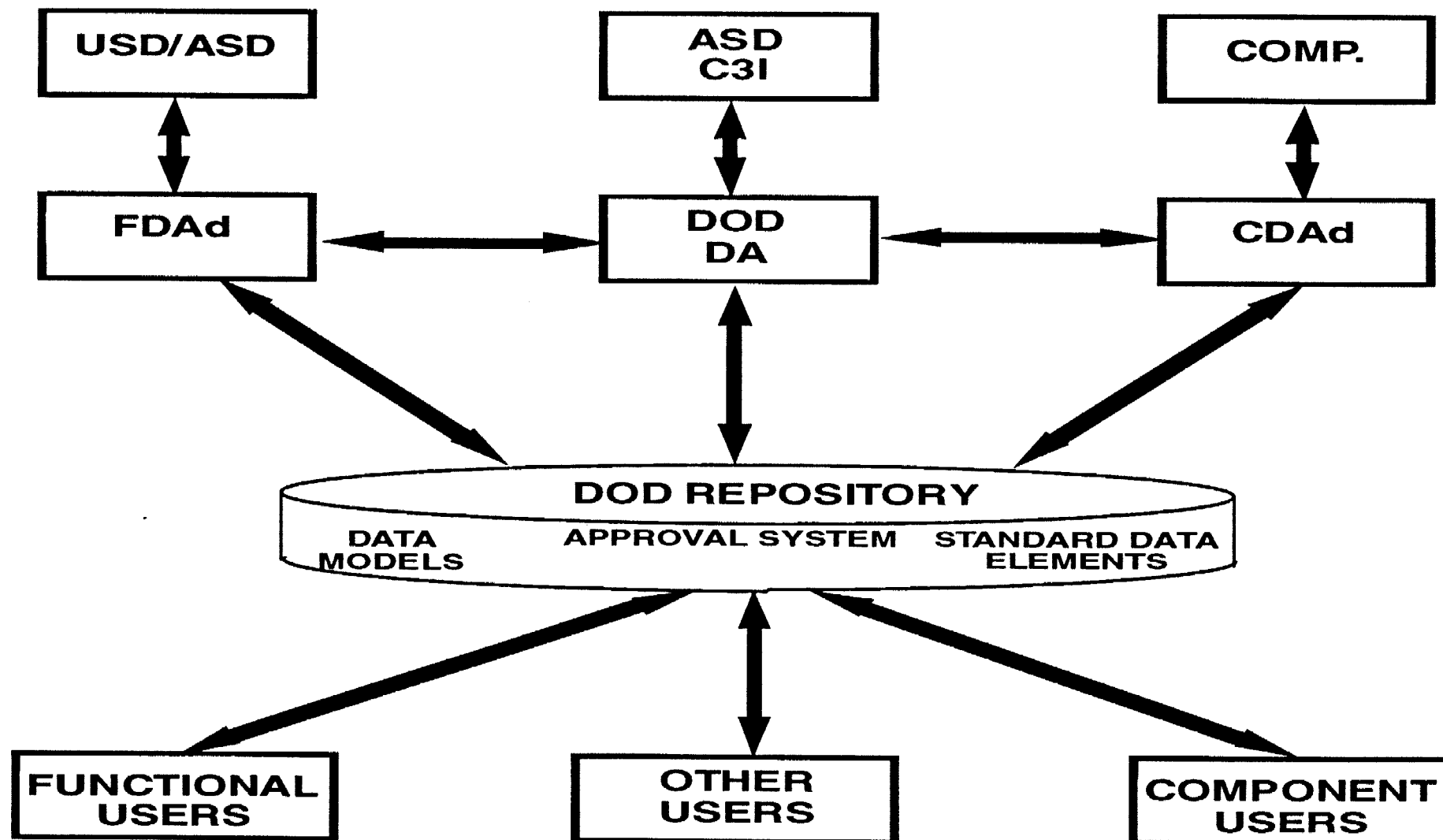
<u>CATEGORY</u>	<u>THEN</u>	<u>NOW</u>	<u>ACTION(s)</u>
DA Policy	Service/Agency	DoD	<ul style="list-style-type: none"><li>• DODD 8320.1, 9/26/91</li><li>• Top Management Support</li></ul>
DA Procedures	Service/Agency	DoD	<ul style="list-style-type: none"><li>• DoD 8320.1-M (Draft)<ul style="list-style-type: none"><li>- ConOps</li><li>- Procedures<ul style="list-style-type: none"><li>-- Program Administration</li><li>-- Technical Infrastructure</li><li>-- Operational Services</li></ul></li><li>- Glossary</li></ul></li></ul>
Data Standards	DoD	DoD	<ul style="list-style-type: none"><li>• DoD 8320.1-M-1 (Draft) for Model-Based Standard Data Elements</li><li>• Legacy Data Elements for Analysis</li></ul>

# DoD Data Evolution (Continued)

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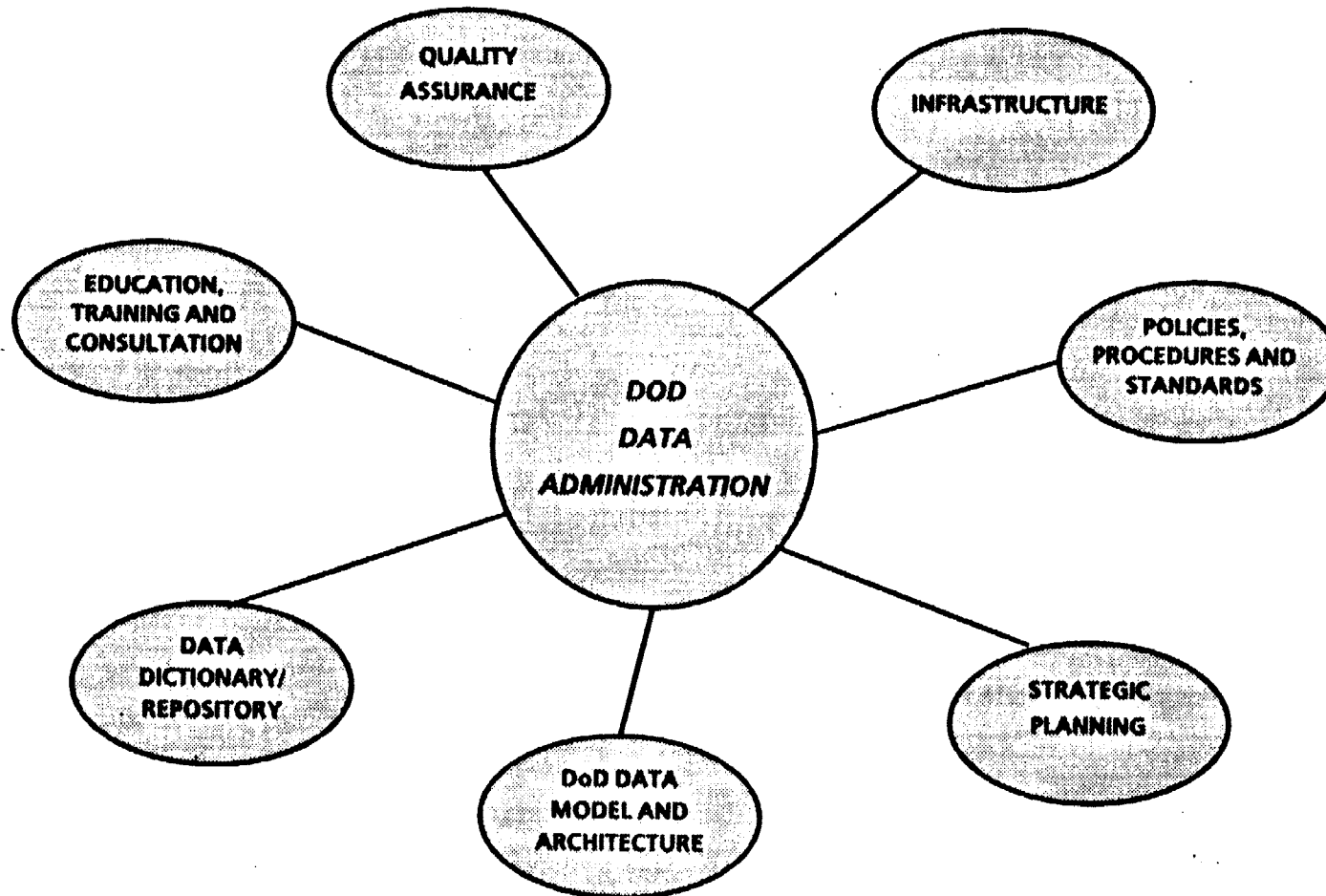
<u>CATEGORY</u>	<u>THEN</u>	<u>NOW</u>	<u>ACTION(s)</u>
Data Dictionary	DoD	DoD	<ul style="list-style-type: none"><li>• DDRS IOC 8/92</li><li>• Migrate Repository to Open Systems</li><li>• Expedite Population</li></ul>
Data Modeling	Service/Agency	DoD	<ul style="list-style-type: none"><li>• DoD Data Model and Architecture</li><li>• IDEF1X</li></ul>
DA Planning	Service/Agency	DoD	<ul style="list-style-type: none"><li>• DA Strategic Plan (Annual)</li><li>• DA Implementation Plans</li></ul>
Data Quality Assurance	Service/Agency	DoD	<ul style="list-style-type: none"><li>• Revisions to AIS Life Cycle/MAISRC Review</li><li>• Guidance in DoD 8320.1-M</li></ul>

# DoD Data Administration Framework



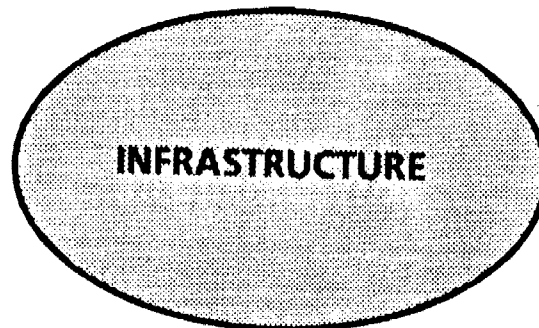
# Elements of the DoD Data Administration Program

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# Infrastructure

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## ORGANIZATIONAL STRUCTURE

- ESTABLISHED UNDER DODD 8320.1
- DOD DATA ADMINISTRATION FRAMEWORK
- INSTITUTIONALIZED WITH DOD DATA ADMINISTRATION STRATEGIC PLAN

## DOD DATA ADMINISTRATION COUNCIL

- CHARTERED AND CHAIRED BY CIM
- FDAICDA REPRESENTATIVES DESIGNATED
- CONVENED JANUARY 1992
- ESTABLISHED AS ISSUE AND EXCHANGE FORUM
- PROVISION FOR SUBGROUPS

# Policies, Procedures and Standards

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**POLICIES,  
PROCEDURES AND  
STANDARDS**

**DODD 8320.1**

**DOD DATA ADMINISTRATION**

- ISSUED SEPTEMBER 26, 1991
- ESTABLISHES POLICIES
- ASSIGNS RESPONSIBILITIES
- AUTHORIZES PROCEDURES MANUAL
- AUTHORIZES DOD IRDS

**DODD 8320.1-M**

**DOD DATA ADMINISTRATION PROCEDURES MANUAL**

- INTRODUCTION
- ROLES AND RESPONSIBILITIES
- PROCEDURES FOR:
  - PROGRAM ADMINISTRATION
  - TECHNICAL INFRASTRUCTURE
  - OPERATIONAL SERVICES
- GLOSSARY
- CONCEPT OF OPERATIONS

**DODD 8320.1-M-1**

**DOD STANDARD DATA ELEMENT DEVELOPMENT, APPROVAL  
AND MAINTENANCE PROCEDURES**

- MAY 1992 DRAFT IN FORMAL REVIEW
- EMPHASIS ON DATA RE-DESIGN
- JOINT SERVICE/AGENCY WORKGROUP

# Strategic Planning

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## DATA ADMINISTRATION STRATEGIC PLAN

- **GUIDING PRINCIPLES AND DOCTRINE**
- **STRATEGIC DIRECTION**
  - **DATA DICTIONARY/REPOSITORY**
  - **DATA ARCHITECTURE**
  - **LEGACY SYSTEMS MIGRATION**
  - **EDUCATION AND TRAINING, ETC.**
- **RESOURCE REQUIREMENTS (POM)**
- **PROGRAM ASSESSMENTS**
- **FDAdICDA DA IMPLEMENTATION PLAN**
  - **ESTABLISH DATA BASELINE**
  - **PRELIMINARY DASP INPUT**

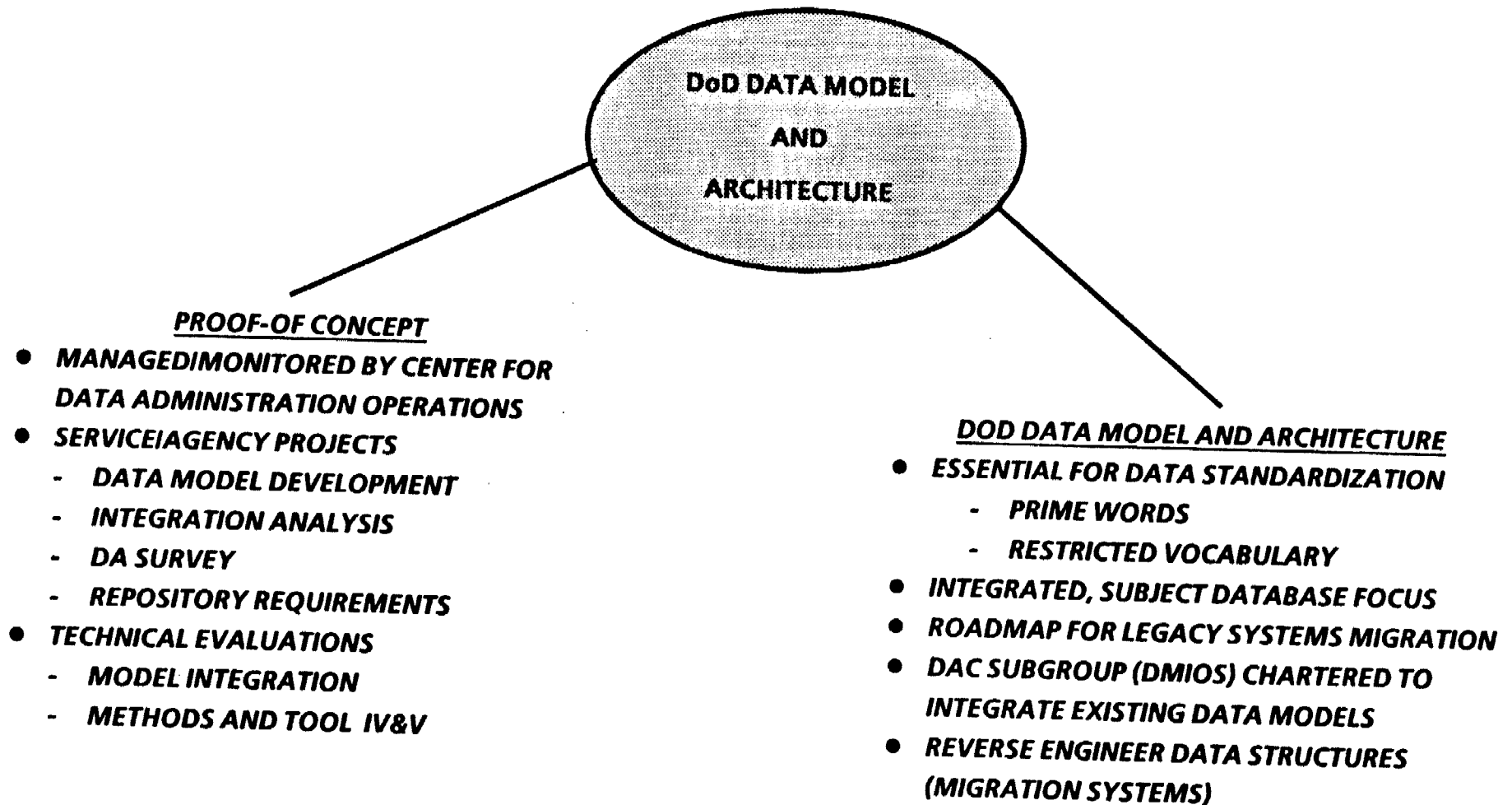
## DOD DATA ADMINISTRATION IMPLEMENTATION PLAN

- **DEVELOPED BY ARMY EA UNDER "QUICK START"**
- **UPDATED TO REFLECT PROGRESS**
- **INCORPORATION INTO DA STRATEGIC PLAN**



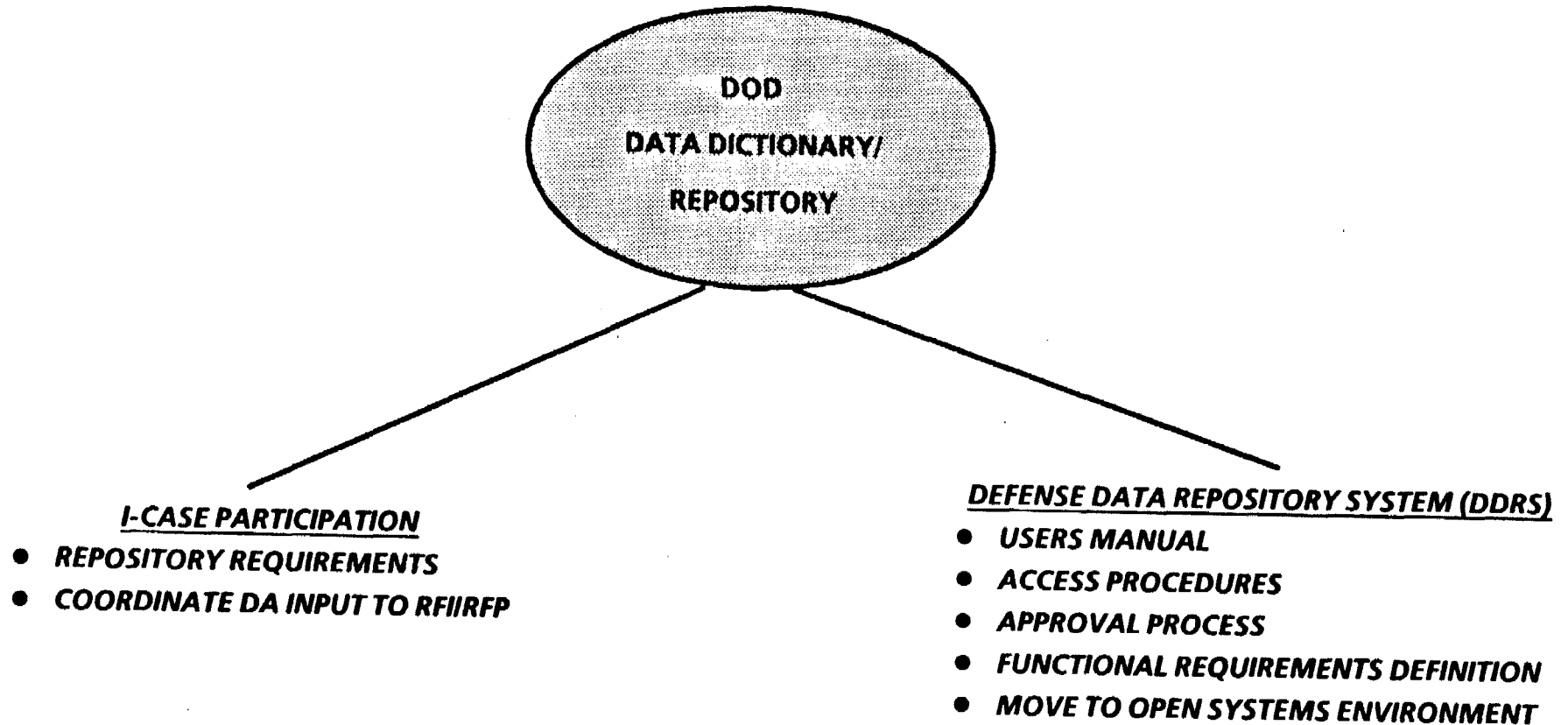
# DoD Data Model and Architecture

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# Data Dictionary/Repository

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# Education, Training, and Consultation

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**EDUCATION,  
TRAINING AND  
CONSULTATION**

**EXECUTIVE AND**

**MANAGEMENT-LEVEL SEMINARS**

- **INCREASE AWARENESS FOR DA**
- **PROVIDE SUPPORT INFORMATION**

**COMPUTER-BASED TRAINING**

- **DATA ELEMENT STANDARDIZATION**
- **DATA DICTIONARY ACCESS**
- **PROVIDE JIT, INTERACTIVE, MODULAR AVAILABILITY**

**CLASSROOM TRAINING MODULES**

- **POLICY, PROCEDURES AND STANDARDS**
- **DATA ELEMENT STANDARDIZATION**
- **GENERAL CONCEPTS OF DA**
- **MODELING**
- **DATA DICTIONARY ACCESS**

# Quality Assurance

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## ASSESSMENTS

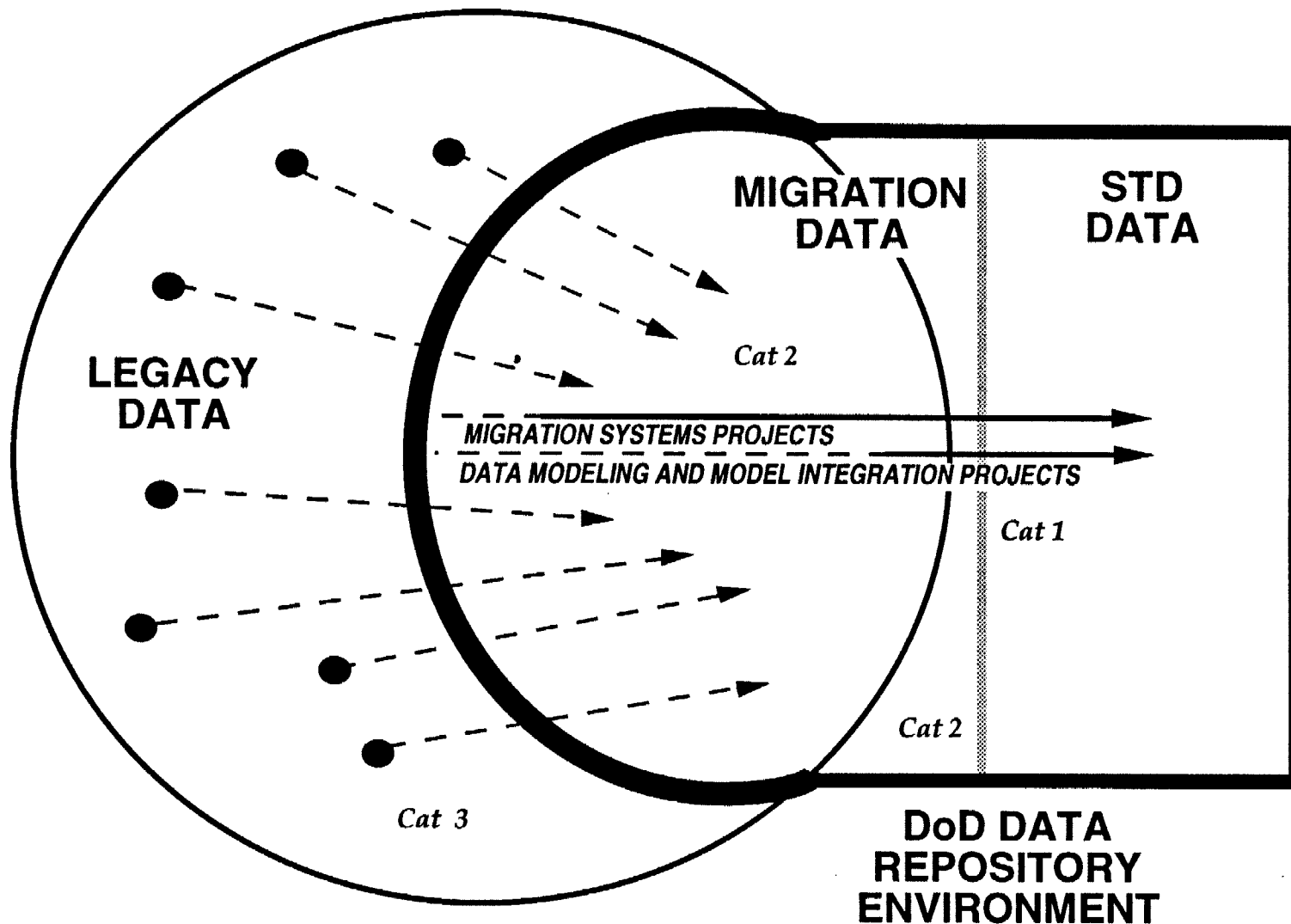
- **DA PROGRAM ASSESSMENTS (DASP MEASUREMENTS)**
- **DDRS QUALITY CONTROL OF STANDARD DATA**
- **DATA MODEL TRANSFORMATIONS (LOGICAL TO PHYSICAL INTEGRITY)**

## GUIDELINES

- **DATA INTEGRITY**
- **DATABASE SYNCHRONIZATION**
- **DATA SECURITY**
- **LIFE CYCLE MANAGEMENT CHECKPOINTS**

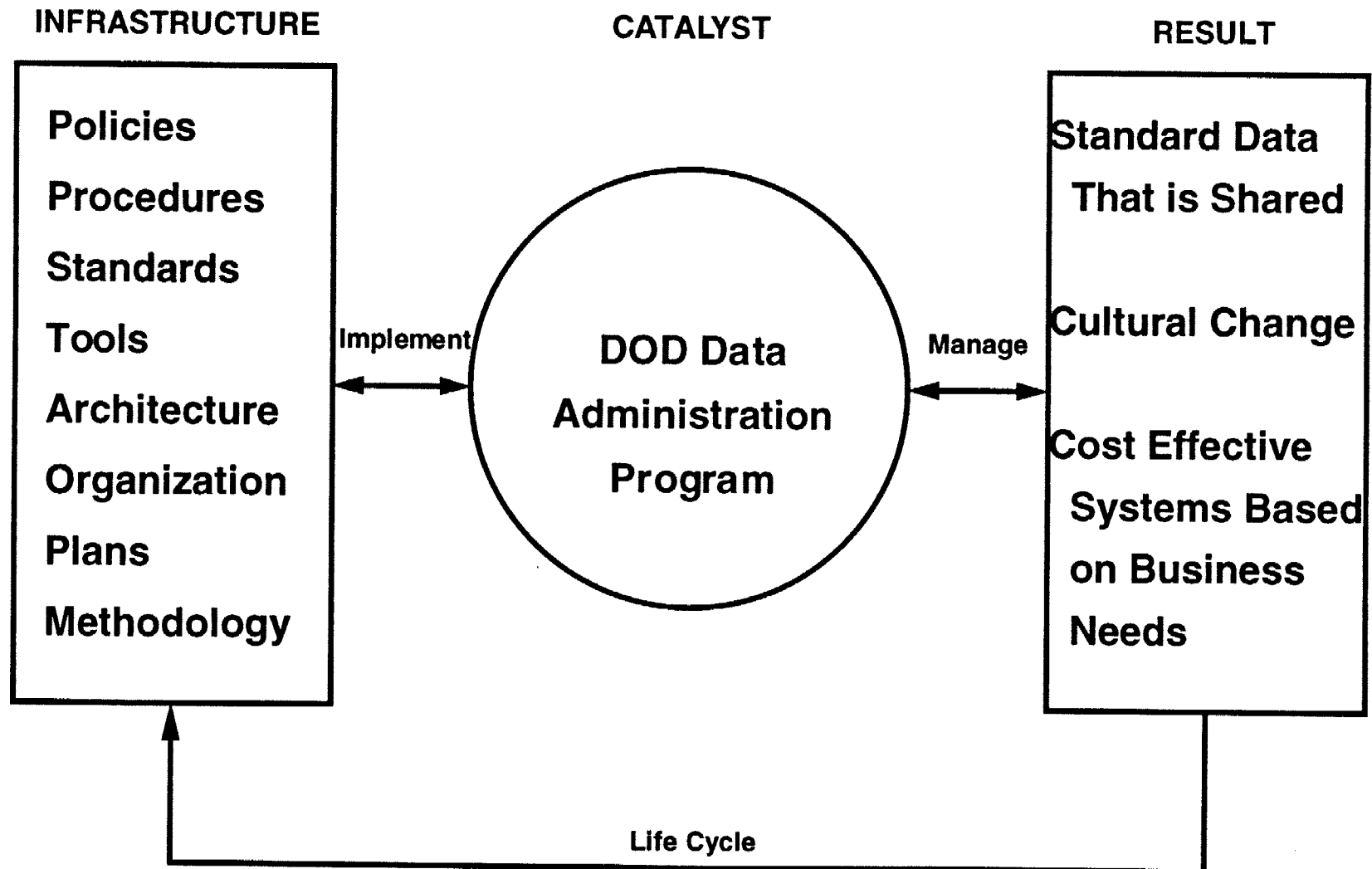
# Baseline and Direction of Data Standardization in DoD

(Including Current Data Repository Efforts)



# Future of DoD Data Administration

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# Summary

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**The Center for Information Management's Data Administration Role is to:**

- **Promote the Management of Information as a Resource in DoD**
- **Promote the Efficient Use and Access to Information**

# Background Material

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## Roles & Responsibilities

- **USD/ASD**
- **ASD C3I**
- **Component**
- **DoD DA**
- **FDAd**
- **CDAAd**



# **USD/ASD Roles & Responsibilities**

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- **Set Functional Policy**
- **Integrate within Function**
- **Designate FDAAd**
- **Plan and Provide DA Resources**
- **Manage IAW DoD DA Policy**

# **ASD C3I Roles & Responsibilities**

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- **Set DoD DA Policy**
- **Integrate across Functions**
- **Resolve Data Issues**
- **Review/Approve DoD DA Plan**
- **Designate DoD DA**

# **Component Roles & Responsibilities**

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- **Manage IAW DoD DA Policy**
- **Integrate within Component**
- **Designate CDAd**
- **Plan and Provide DA Resources**

# **DoD DA Roles & Responsibilities**

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- **Manage DoD DA Program**
- **Consolidate and Submit DoD DA Plan**
- **Chair the DA Council**
- **Coordinate Data Issues for Resolution**
- **Publish DA Procedures and Standards**
- **Develop/Maintain Overall DoD Data Architecture**
- **Approve Data Elements as DoD Standard**
- **Maintain DoD Repository**

# **FDAd Roles & Responsibilities**

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- **Develop Designated Functional Data Models**
- **Submits Recommendation for Approval/Disapproval for Candidate Data Elements to DoD Data Administration**
- **Submits Candidate Data Elements for Approval Processing**
- **Representative to DA Council**
- **Develop DA Plan for Functional Area**
- **Ensure Data Standards Compliance**

# **CDAd Roles & Responsibilities**

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- **Technical Review of Data Elements for Functional Approval**
- **Submits Candidate Data Elements for Approval Processing**
- **Representative to DA Council**
- **Support Functional Requirements**
- **Develop DA Plan for Component**
- **Ensure Data Standards Compliance**